

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|-------|------------------|---------|------------------|
| S5 | 0 | "h.323." adj2 (terminal or equipment or user) | USPAT | OR | ON | 2005/01/04 09:44 |
| S6 | 0 | "h.323." adj10 (terminal or equipment or user) | USPAT | OR | ON | 2005/01/04 09:43 |
| S7 | 0 | "h.323." with (terminal or equipment or user) | USPAT | OR | ON | 2005/01/04 09:44 |
| S8 | 138 | "h.323" adj2 (terminal or equipment or user) | USPAT | OR | ON | 2005/01/24 01:59 |
| S11 | 0 | "h.323" with (terminal or equipment or user) and gprs and vmsc and packet adj3 switch\$3 and (VoIP and Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/27 09:50 |
| S12 | 0 | "h.323" with (terminal or equipment or user) and gprs and vmsc and packet adj3 switch\$3 and VoIP and (Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/21 23:31 |
| S13 | 0 | "h.323" with (terminal or equipment or user) and gprs and vmsc and packet adj3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/21 23:31 |
| S14 | 0 | "h.323" and gprs and vmsc and packet adj3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/21 23:31 |
| S15 | 0 | ("h.323" or h323) and (gprs or 3G or SGSN) and vmsc and packet near3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/31 18:02 |
| S16 | 5 | (("h.323" or h323) or mobile) and (gprs or 3G or SGSN) and vmsc and packet near3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/21 23:39 |
| S17 | 1 | S16 and Voice with over with (ip or internet) | USPAT | OR | ON | 2005/01/21 23:33 |
| S18 | 1 | (("h.323" or h323) or mobile) and (gprs or 3G or SGSN) and vmsc and packet near3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) and voip | USPAT | OR | ON | 2005/01/21 23:40 |
| S19 | 1 | (gprs or 3G or SGSN) and vmsc and packet near3 switch\$3 and (Circuit adj3 switch\$3 or GMSC or vmsc) and voip | USPAT | OR | ON | 2005/01/21 23:40 |
| S20 | 1 | SGSN and ggsn and vmsc and (MSC or gmsc) and (voip or voice near3 over near5 (ip or internet)) | USPAT | OR | ON | 2005/01/25 10:30 |

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| S21 | 4 | SGSN and ggsn and vmsc and (MSC or gmSc) and (voip or voice near3 over near5 (ip or internet)) | US-PGPUB | OR | ON | 2005/01/22 00:05 |
| S22 | 3 | SGSN and ggsn and vmsc and (MSC or gmSc) and (voip or voice near3 over near5 (ip or internet)) and ("h.323" or h323) | US-PGPUB | OR | ON | 2005/01/21 23:47 |
| S28 | 1 | SGSN and ggsn and vmsc and (MSC or gmSc) and (voip or voice near3 over near5 (ip or internet)) and gatekeep\$ | US-PGPUB | OR | ON | 2005/01/22 00:05 |
| S29 | 142 | "h.323" adj2 (terminal or equipment or user) | USPAT | OR | ON | 2005/01/23 23:28 |
| S30 | 0 | S29 and gprs and vmsc and packet adj3 switch\$3 and (VoIP and Circuit adj3 switch\$3 or GMSC or vmsc) | USPAT | OR | ON | 2005/01/23 23:28 |
| S31 | 0 | gprs and pcu and vocoder and vmsc | USPAT | OR | ON | 2005/01/23 23:35 |
| S32 | 0 | gprs and vocoder and vmsc | USPAT | OR | ON | 2005/01/23 23:35 |
| S33 | 5 | gprs and vmsc | USPAT | OR | ON | 2005/01/23 23:35 |
| S34 | 1 | S33 and pcu | USPAT | OR | ON | 2005/01/23 23:37 |
| S35 | 108 | "h.323" adj2 (terminal or equipment or user) and gatekeeper\$1 | USPAT | OR | ON | 2005/01/24 05:10 |
| S36 | 1 | "h.323" adj2 (terminal or equipment or user) and gatekeeper\$1 and vmsc | USPAT | OR | ON | 2005/01/23 23:43 |
| S37 | 10 | "h.323" adj2 (terminal or equipment or user) and (tmsi or imsi) | USPAT | OR | ON | 2005/01/24 00:49 |
| S38 | 0 | "h.323" adj2 (terminal or equipment or user) and (tmsi or imsi) and vmsc | USPAT | OR | ON | 2005/01/24 00:49 |
| S39 | 2 | "h.323" adj2 (terminal or equipment or user) and (tmsi or imsi) and gmSc | USPAT | OR | ON | 2005/01/24 01:47 |
| S40 | 21 | "h.323" adj2 (terminal or equipment or user) and authenticat\$3 and locat\$3 with updat\$3 | USPAT | OR | ON | 2005/01/24 02:03 |
| S41 | 1 | S40 and vmsc | USPAT | OR | ON | 2005/01/24 02:01 |
| S42 | 0 | S41 and gprs | USPAT | OR | ON | 2005/01/24 02:01 |
| S43 | 0 | S41 and sgsn | USPAT | OR | ON | 2005/01/24 02:01 |
| S44 | 0 | S41 and 3g | USPAT | OR | ON | 2005/01/24 02:01 |
| S45 | 0 | "h.323" adj2 (terminal or equipment or user) and authenticat\$3 and locat\$3 with updat\$3 and sgsn | USPAT | OR | ON | 2005/01/24 02:03 |

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| S46 | 0 | "h.323" adj2 (terminal or equipment or user) and authenticat\$3 and locat\$3 with updat\$3 and gprs | USPAT | OR | ON | 2005/01/24 02:03 |
| S47 | 442 | vocoder with voice with (data or packet) | USPAT | OR | ON | 2005/01/24 02:31 |
| S48 | 1 | vocoder with voice with (data or packet) same (gprs or sgsn) | USPAT | OR | ON | 2005/01/24 03:06 |
| S49 | 98 | "h.323" adj2 (terminal or equipment or user) and gatekeeper\$1 same (ggsn or gateway) | USPAT | OR | ON | 2005/01/24 05:11 |
| S50 | 0 | "h.323" adj2 (terminal or equipment or user) and gatekeeper\$1 with (ggsn) | USPAT | OR | ON | 2005/01/24 05:11 |
| S51 | 0 | "h.323" adj2 (terminal or equipment or user) and gatekeeper\$1 same (ggsn) | USPAT | OR | ON | 2005/01/24 05:12 |
| S52 | 5 | "h.323" and gatekeeper\$1 same (ggsn) | USPAT | OR | ON | 2005/01/24 05:12 |
| S56 | 3 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) | USPAT | OR | ON | 2005/01/25 10:34 |
| S57 | 3 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and regist\$7 | USPAT | OR | ON | 2005/01/25 10:34 |
| S58 | 1 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and regist\$7 and authenticat\$ | USPAT | OR | ON | 2005/01/25 10:34 |
| S59 | 1 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and regist\$7 and (authenticat\$ or valid\$) | USPAT | OR | ON | 2005/01/25 10:38 |

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| S60 | 2 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and (accept\$ or authenticat\$ or valid\$) | USPAT | OR | ON | 2005/01/25 10:39 |
| S61 | 0 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and (accept\$ or authenticat\$ or valid\$) and "h.323." | USPAT | OR | ON | 2005/01/25 10:39 |
| S62 | 2 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and (accept\$ or authenticat\$ or valid\$) | USPAT | OR | ON | 2005/01/25 10:39 |
| S63 | 0 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and (accept\$ or authenticat\$ or valid\$) and vocoder\$ | USPAT | OR | ON | 2005/01/25 10:39 |
| S64 | 0 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and (bts and bsc and rnc) and vocoder\$ with (compress\$ or digit\$ or cipher\$ or encrypt\$) | USPAT | OR | ON | 2005/01/25 10:40 |
| S65 | 1 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and (voip or voice near3 over near5 (ip or internet) or multimedia or video adj conferenc\$3) and vocoder\$ with (compress\$ or digit\$ or cipher\$ or encrypt\$) | USPAT | OR | ON | 2005/01/25 10:42 |
| S66 | 1 | (SGSN or ggsn) and (vmsc or gmsc) and MSC and vocoder\$ with (compress\$ or digit\$ or cipher\$ or encrypt\$) | USPAT | OR | ON | 2005/01/25 10:42 |
| S67 | 1 | (SGSN or ggsn) and MSC and vocoder\$ with (compress\$ or digit\$ or cipher\$ or encrypt\$) | USPAT | OR | ON | 2005/01/25 10:43 |
| S68 | 16 | (SGSN or ggsn) and MSC and vocoder\$ with (compress\$ or digit\$ or cipher\$ or encrypt\$) | US-PGPUB | OR | ON | 2005/01/25 10:43 |

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| S69 | 4 | "h.323" adj2 (terminal or equipment or user) and authenticat\$3 and locat\$3 with updat\$3 and gprs | US-PGPUB | OR | ON | 2005/01/25 13:27 |
| S70 | 2 | "h.323" adj2 (terminal or equipment or user) and authenticat\$3 and locat\$3 with updat\$3 and ggsn | US-PGPUB | OR | ON | 2005/01/25 13:29 |
| S75 | 4 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and VoIP and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 and (security or compress\$ or encrypt\$ or cipher\$) | USPAT | OR | ON | 2005/01/27 10:17 |
| S76 | 2 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and VoIP and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 and (compress\$ or encrypt\$ or cipher\$) | USPAT | OR | ON | 2005/01/27 10:18 |
| S77 | 37 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and VoIP and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 and (compress\$ or encrypt\$ or cipher\$) | US-PGPUB | OR | ON | 2005/01/27 10:18 |
| S78 | 1 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and VoIP and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) | US-PGPUB | OR | ON | 2005/01/27 10:19 |
| S79 | 7 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) | US-PGPUB | OR | ON | 2005/01/27 13:20 |
| S80 | 7 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc or plmn) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) | US-PGPUB | OR | ON | 2005/01/27 10:43 |
| S81 | 0 | S80 not S79 | US-PGPUB | OR | ON | 2005/01/27 10:43 |

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| S82 | 1 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) and "h.225" | US-PGPUB | OR | ON | 2005/01/27 13:21 |
| S83 | 0 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) and "h.225" | USPAT | OR | ON | 2005/01/27 13:21 |
| S84 | 1 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$ or securit\$3) and "h.225" | USPAT | OR | ON | 2005/01/27 13:23 |
| S85 | 218 | "q.931" with setup | USPAT | OR | ON | 2005/01/27 14:11 |
| S86 | 133 | S85 and "370".clas. | USPAT | OR | ON | 2005/01/27 13:23 |
| S87 | 41 | S86 and gatekeeper\$ | USPAT | OR | ON | 2005/01/27 13:23 |
| S88 | 1 | S87 and gsm and sgsn | USPAT | OR | ON | 2005/01/27 13:31 |
| S89 | 1 | S88 and "h.323\$" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/01/27 13:54 |
| S90 | 0 | S89 and "h.225\$" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/01/27 13:31 |
| S94 | 0 | "q.931" with setup and voip and gatekeeper\$1 and sgsn and msc and "h.225" | USPAT | OR | ON | 2005/01/27 14:12 |
| S95 | 0 | "q.931" with setup and voip and gatekeeper\$1 and sgsn and msc and "h.323" | USPAT | OR | ON | 2005/01/27 14:13 |
| S96 | 0 | "q.931" with setup and voip and gatekeeper\$1 and sgsn and msc | USPAT | OR | ON | 2005/01/27 14:12 |
| S97 | 0 | "q.931" with setup and voip and sgsn and msc | USPAT | OR | ON | 2005/01/27 14:13 |
| S98 | 0 | "q.931" same setup and voip and gatekeeper\$1 and sgsn and msc and "h.323" | USPAT | OR | ON | 2005/01/27 14:13 |

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| S99 | 0 | "q.931" same setup and voip and gatekeeper\$1 and sgsn and msc | USPAT | OR | ON | 2005/01/27 14:13 |
| S10 0 | 0 | "q.931" and voip and gatekeeper\$1 and sgsn and msc | USPAT | OR | ON | 2005/01/27 14:13 |
| S10 1 | 1 | "q.931" and voip and sgsn and msc | USPAT | OR | ON | 2005/01/27 14:46 |
| S10 2 | 6 | gsm with regist\$8 same authenticat\$ and location with updat\$3 and (compress\$ or encrypt\$ or cipher\$3) and (acknowledg\$3 or notif\$9) with (gsm or vmsc or gmsc or msc) | USPAT | OR | ON | 2005/01/27 14:51 |
| S10 3 | 0 | gsm with regist\$8 same authenticat\$ and location with updat\$3 and (compress\$ or encrypt\$ or cipher\$3) and (acknowledg\$3 or notif\$9) with (gsm or vmsc or gmsc or msc) and (sgsn or gprs) and "h.323" | USPAT | OR | ON | 2005/01/27 14:52 |
| S10 4 | 0 | gsm with regist\$8 same authenticat\$ and location with updat\$3 and (compress\$ or encrypt\$ or cipher\$3) and (acknowledg\$3 or notif\$9) with (gsm or vmsc or gmsc or msc) and (sgsn or gprs) and "h.323" | USPAT | OR | ON | 2005/01/27 14:52 |
| S10 5 | 1 | gsm with regist\$8 same authenticat\$ and location with updat\$3 and (compress\$ or encrypt\$ or cipher\$3) and (acknowledg\$3 or notif\$9) with (gsm or vmsc or gmsc or msc) and (sgsn or gprs) and voice with internet | USPAT | OR | ON | 2005/01/27 15:06 |
| S10 6 | 1 | gsm with regist\$8 same authenticat\$ and location with updat\$3 and (compress\$ or encrypt\$ or cipher\$3) and (acknowledg\$3 or notif\$9) with (gsm or vmsc or gmsc or msc) and (sgsn or gprs) and voice with internet and notif\$ and "6463055". pn. | USPAT | OR | ON | 2005/01/27 15:12 |
| S10 7 | 28 | gsm with ansi-41 | USPAT | OR | ON | 2005/01/27 15:14 |
| S10 8 | 7 | S107 and (gprs or sgsn) | USPAT | OR | ON | 2005/01/27 15:16 |
| S10 9 | 1 | S107 and (gprs or sgsn) and voip | USPAT | OR | ON | 2005/01/27 15:36 |

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| S11 0 | 2 | S107 and (gprs or sgsn) and regist\$ and authenticat\$ and allocat\$ and notifi\$ | USPAT | OR | ON | 2005/01/27 15:17 |
| S11 1 | 0 | "20020141358".pn. and voip | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/01/27 15:41 |
| S11 2 | 7 | ("h.323" or multimedia or video) and (gprs or sgsn or ggsn) and (Circuit adj3 switch\$3 or GMSC or vmsc or msc or plmn) and regist\$ and authenticat\$3 and notif\$7 with (msc or gmsc or vmsc) and (compress\$ or encrypt\$ or cipher\$) | US-PGPUB | OR | ON | 2005/01/28 07:57 |
| S11 3 | 5 | gprs and vmsc | USPAT | OR | ON | 2005/01/28 07:58 |
| S11 4 | 1 | ("6463055".pn. or "6434140".pn. or "20030026245".pn.) and bts and bsc and bss | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/01/28 09:44 |
| S12 0 | 11 | media adj10 gateway with (compress\$ or encrypt\$ or cipher\$) | USPAT | OR | ON | 2005/01/28 09:23 |
| S12 1 | 3 | media adj10 gateway with (compress\$ or encrypt\$ or cipher\$) and voip | USPAT | OR | ON | 2005/01/28 09:32 |
| S12 2 | 425 | vocoder with (compress\$ or encrypt\$ or cipher\$) | USPAT | OR | ON | 2005/01/28 09:32 |
| S12 3 | 16 | vocoder with (compress\$ or encrypt\$ or cipher\$) and "h.323" | USPAT | OR | ON | 2005/01/28 09:32 |
| S12 4 | 0 | vocoder with (compress\$ or encrypt\$ or cipher\$) and "h.323" and gsm and gprs | USPAT | OR | ON | 2005/01/28 09:32 |
| S12 5 | 0 | vocoder with (compress\$ or encrypt\$ or cipher\$) and "h.323" and circuit adj10 switch\$3 and gprs | USPAT | OR | ON | 2005/01/28 09:33 |
| S12 6 | 13 | vocoder with (compress\$ or encrypt\$ or cipher\$) and "h.323" and circuit adj10 switch\$3 | USPAT | OR | ON | 2005/01/28 09:33 |
| S12 7 | 12 | vocoder with (compress\$ or encrypt\$ or cipher\$) and "h.323" and circuit adj10 switch\$3 and packet adj10 switch\$3 | USPAT | OR | ON | 2005/01/28 09:33 |
| S18 9 | 1 | gatekeeper with ggsn and phone with number and alias | US-PGPUB; USPAT | OR | ON | 2005/01/31 19:31 |
| S19 0 | 1 | gatekeeper with ggsn same phone with number | US-PGPUB; USPAT | OR | ON | 2005/01/31 19:31 |

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| S19 1 | 1 | gatekeeper with ggsn and phone with number | US-PGPUB; USPAT | OR | ON | 2005/01/31 19:31 |
| S19 2 | 11 | gatekeeper with ggsn | US-PGPUB; USPAT | OR | ON | 2005/01/31 19:39 |
| S19 3 | 5 | gatekeeper with ggsn | USPAT | OR | ON | 2005/01/31 19:35 |
| S19 4 | 4 | gatekeeper with ggsn and "h.323" | USPAT | OR | ON | 2005/01/31 19:35 |
| S19 5 | 6 | gatekeeper with ggsn | US-PGPUB | OR | ON | 2005/01/31 19:39 |
| S20 0 | 139 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) | USPAT | OR | ON | 2005/02/01 20:42 |
| S20 1 | 9 | S200 same msc | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/02/01 20:20 |
| S20 2 | 3 | S200 same msc and (activat\$ or deactivat\$ or de-activat\$) | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/02/01 20:12 |
| S20 3 | 2 | S202 and VoIP | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/02/01 20:13 |
| S20 4 | 0 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) same ggsn | USPAT | OR | ON | 2005/02/01 20:21 |
| S20 5 | 1 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) same gprs\$ | USPAT | OR | ON | 2005/02/01 20:21 |
| S20 6 | 4 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) same gsm and circuit with switch\$3 | USPAT | OR | ON | 2005/02/01 20:42 |
| S20 7 | 0 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) same gsm and circuit with switch\$3 and disengag\$3 | USPAT | OR | ON | 2005/02/01 20:42 |
| S20 8 | 3 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) and gsm and circuit with switch\$3 and disengag\$3 | USPAT | OR | ON | 2005/02/01 20:47 |
| S20 9 | 0 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) and sgsn and circuit with switch\$3 and disengag\$3 | USPAT | OR | ON | 2005/02/01 20:48 |

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| S21 0 | 2 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) and sgsn and circuit with switch\$3 | USPAT | OR | ON | 2005/02/01 20:53 |
| S21 1 | 77 | (gatekeeper or "h.323") with (disconnect\$ or terminat\$ or releas\$3) and packet with switch\$3 and circuit with switch\$3 | USPAT | OR | ON | 2005/02/01 20:53 |
| S21 2 | 21 | (gatekeeper or "h.323") with disconnect\$ and packet with switch\$3 and circuit with switch\$3 | USPAT | OR | ON | 2005/02/01 21:27 |
| S21 3 | 15 | (gatekeeper or "h.323") with disconnect\$ and packet with switch\$3 and circuit with switch\$3 and registrat\$3 | USPAT | OR | ON | 2005/02/01 21:28 |
| S21 4 | 6 | (gatekeeper or "h.323") with disconnect\$ and packet with switch\$3 and circuit with switch\$3 and registrat\$3 and Voip | USPAT | OR | ON | 2005/02/01 21:35 |
| S21 5 | 3 | (wireless or mobile) adj20 (disconnect\$ or disengag\$ or deactivat\$ or terminat\$ or releas\$) with ("h.323" or gatekeeper or gk) and packet with switch\$3 and circuit with switch\$3 and registrat\$3 and Voip | USPAT | OR | ON | 2005/02/02 09:26 |
| S21 6 | 38 | MSISDN with "e.164" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 09:27 |
| S21 7 | 12 | MSISDN with "e.164" | USPAT | OR | ON | 2005/02/02 09:46 |
| S21 8 | 0 | (msc or gmsc) adj20 disconnect adj20 (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:08 |
| S21 9 | 0 | (msc or gmsc) adj20 terminat\$3 adj20 (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:47 |
| S22 0 | 0 | (msc or gmsc) adj20 (on-hook or onhook) adj20 (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:48 |
| S22 1 | 1 | (msc or gmsc) adj20 releas\$3 adj20 (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:50 |
| S22 2 | 1 | (msc or gmsc) adj20 releas\$3 with (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:51 |
| S22 3 | 0 | (msc or gmsc) adj20 disconnect with (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:55 |
| S22 4 | 0 | (msc or gmsc) with disconnect with (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:55 |

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|----------|---|---|----------|----|----|------------------|
| S22 5 | 0 | (msc or gmsc) adj20 disconnect same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:56 |
| S22 6 | 2 | (msc or gmsc) adj20 releas\$3 same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:07 |
| S22 7 | 0 | (msc or gmsc) adj20 (on-hook or onhook) same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:56 |
| S22 8 | 7 | (msc or gmsc) adj20 (terminat\$3) same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 09:59 |
| S22 9 | 2 | (circuit) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) adj20 (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:10 |
| S23 0 | 0 | (circuit) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) adj20 (gatekeeper or "h.323" or gk) | US-PGPUB | OR | ON | 2005/02/02 10:08 |
| S23 1 | 9 | (circuit adj10 switch\$3 or msc or gmsc) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:23 |
| S23 2 | 5 | (circuit adj10 switch\$3 or msc or gmsc) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) same (sip or session with initia\$5 with protocol) | USPAT | OR | ON | 2005/02/02 10:23 |
| S23 3 | 0 | (sgsn or ggsn) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) same (gatekeeper or "h.323" or gk) same (msc or gmsc or vmsc or circuit with switch\$3) | USPAT | OR | ON | 2005/02/02 10:24 |
| S23 4 | 0 | (sgsn or ggsn) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:24 |
| S23 5 | 4 | (sgsn or ggsn or packet with switch\$3) adj20 (releas\$3 or terminat\$3 or disconnect\$3 or on-hook or onhook) same (gatekeeper or "h.323" or gk) | USPAT | OR | ON | 2005/02/02 10:30 |
| S23 6 | 0 | sgsn and (packet or circuit) adj3 switch\$3 and (gatekeeper or "h.323" or gk) and disconnect and "q.931" with releas\$3 and "h.225" and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:33 |

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| S23 7 | 0 | sgsn and (packet or circuit) adj3 switch\$3 and (gatekeeper or "h.323" or gk) and disconnect and "q.931" with releas\$3 and "h.225" and context near20 deactivat\$3 and (msc or vmsc or gmsc) | US-PGPUB | OR | ON | 2005/02/02 10:32 |
| S23 8 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and "q.931" with releas\$3 and "h.225" and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:33 |
| S23 9 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and "q.931" and releas\$3 and "h.225" and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:33 |
| S24 0 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and "h.225" and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:34 |
| S24 1 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and ras and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:34 |
| S24 2 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and context near20 deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:34 |
| S24 3 | 0 | sgsn and (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and context with deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:34 |
| S24 4 | 0 | (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and context with deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:35 |
| S24 5 | 1 | (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and deactivat\$3 and (msc or vmsc or gmsc) | USPAT | OR | ON | 2005/02/02 10:35 |
| S24 6 | 0 | (gatekeeper or "h.323" or gk) and disconnect and releas\$3 and deactivat\$3 and (msc or vmsc or gmsc) | US-PGPUB | OR | ON | 2005/02/02 10:36 |
| S24 7 | 0 | (gatekeeper or "h.323" or gk or sip) and disconnect and releas\$3 and deactivat\$3 and (msc or vmsc or gmsc) | US-PGPUB | OR | ON | 2005/02/02 10:36 |

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|----------|----|--|----------|----|-----|------------------|
| S24 8 | 0 | (msc or gmsc or vmsc) with disconnect same "h.225" same ras | US-PGPUB | OR | ON | 2005/02/02 10:37 |
| S24 9 | 0 | (msc or gmsc or vmsc) with disconnect same "h.225" same ras | USPAT | OR | ON | 2005/02/02 10:38 |
| S25 0 | 0 | (msc or gmsc or vmsc) with disconnect and "h.225" same ras | USPAT | OR | ON | 2005/02/02 10:38 |
| S25 1 | 1 | (msc or gmsc or vmsc) with releas\$3 and "h.225" same ras | USPAT | OR | ON | 2005/02/02 10:51 |
| S25 2 | 65 | context adj3 deactivat\$3 | USPAT | OR | ON | 2005/02/02 10:58 |
| S25 3 | 0 | context adj3 deactivat\$3 same (msc or gmsc or vmsc) | USPAT | OR | ON | 2005/02/02 10:51 |
| S25 4 | 10 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) | USPAT | OR | ON | 2005/02/02 10:58 |
| S25 5 | 5 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and ras | USPAT | OR | ON | 2005/02/02 10:53 |
| S25 6 | 0 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and ras and voip | USPAT | OR | ON | 2005/02/02 10:52 |
| S25 7 | 2 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and ras | USPAT | OR | OFF | 2005/02/02 10:53 |
| S25 8 | 0 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and voip | USPAT | OR | ON | 2005/02/02 10:58 |
| S25 9 | 0 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and "h.323" | USPAT | OR | ON | 2005/02/02 10:58 |
| S26 0 | 0 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and sip | USPAT | OR | ON | 2005/02/02 10:59 |
| S26 1 | 3 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and sip | US-PGPUB | OR | ON | 2005/02/02 10:59 |
| S26 2 | 2 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and ("h.323" or h323) | US-PGPUB | OR | ON | 2005/02/02 11:00 |
| S26 3 | 1 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and ras and (multimedia or voice adj20 internet or voip) | US-PGPUB | OR | ON | 2005/02/02 11:01 |
| S26 4 | 8 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and (multimedia or voice adj20 internet or voip) | US-PGPUB | OR | ON | 2005/02/02 11:02 |
| S26 5 | 2 | context adj3 deactivat\$3 and (msc or gmsc or vmsc) and (multimedia or voice adj20 internet or voip) | USPAT | OR | ON | 2005/02/02 11:04 |
| S26 6 | 0 | msc with disconnect\$3 same h323 | USPAT | OR | ON | 2005/02/02 11:05 |
| S26 7 | 0 | msc with releas\$3 same h323 | USPAT | OR | ON | 2005/02/02 11:05 |
| S26 8 | 1 | msc with releas\$3 same (h323 or "h.323") | USPAT | OR | ON | 2005/02/02 11:06 |

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| S26 9 | 4 | msc with (disengag\$3 or terminat\$3) same (h323 or "h.323") | USPAT | OR | ON | 2005/02/02 11:06 |
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